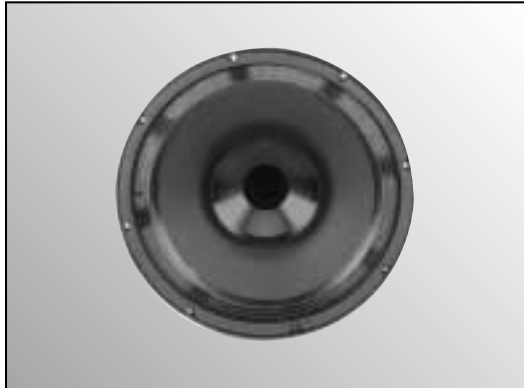




TRUE COMPRESSION COAXIAL LOUDSPEAKER AVAILABLE WITH TRANSFORMER

8CXT60

One



Full Range Compression Driver Coaxial Speaker System	
Frequency Response (±10dB) Measured in Q408	48 Hz to 18 kHz
Frequency Response (±3dB) Measured in Q408	68 Hz to 15 kHz
Power Handling*	150 Watts
Sensitivity 1W/1M**	92dB
Max. SPL @ 1M (Transformer Limited @ 60W)	110dB
Crossover Frequency	2000 Hz
Dispersion Angle***	90 Degrees
LF TRANSDUCER	
Basket Material	Cast Aluminum
Cone Material	Polypropylene
Surround & Dampening	Thermal Plastic Elastomer
Voice Coil Diameter	2" (48mm)
Magnet Weight	25 oz. (708.7g)
HF COMPRESSION DRIVER	
Diaphragm Material	Titanium
Voice Coil Diameter	1" (25mm)
Voice Coil Former Material	Aluminum
Voice Coil Material	Copper
Throat Diameter	1" (25mm)
Magnet Weight	20 oz. (567g)
Top Plate Thickness	0.218" (5.56mm)
Transformer	
Frequency Response:	33 Hz to 21 kHz (±2dB)
Primary Taps @ 70.7V:	60, 30, 15, 7.5
	Maximum Insertion Loss 1dB
Depth & Diameter	8.25" (310mm) Dia. & 8" (203mm) Deep
Mounting Dimensions	7.75" (295mm) Bolt Circle
Net Weight (Less Transformer)	11 lbs (4.99kg)
Warranty	5 Years
Suggested enclosure for Max Low Frequency Performance	Atlas Sound Q418 (1½ Ft³, .042m³)

* Rated power based on EIA specification - The 8CXT60 is designed to comply with the power test described in EIA Standard RS-426A. The EIA test spectrum is applied for eight hours. This procedure provides a rigorous test of both thermal and mechanical failure modes.
** Averaged from 500 Hz to 2.5 kHz
*** Dispersion angle = 6dB down point at 2 kHz

FEATURES

- 1" Exit compression high frequency driver coupled to a specially designed conical wave-guide horn provides exceptional output & accurate high frequency reproduction
- High efficiency cone woofer is optimally matched with a specially designed crossover to insure even transition between components
- 90 Degree conical dispersion (@ 2000 Hz)
- Includes factory installed, 60W, 70.7/100V transformer
- Perfectly suited for use with Atlas Sound "Q" Series enclosures

APPLICATIONS

The 8CXT60 is optimized for high-ceiling applications such as arenas, convention centers, gymnasiums and auditoriums. The extreme high efficiency and higher "Q" of the 8CXT60, with its powerful 8" speaker and 1" exit compression driver, provides the increased available SPL often required in these high ceiling applications. In 70.7V/100V systems, this high efficiency can also result in lower tap settings, which can conserve amplifier power.

GENERAL DESCRIPTION

Model 8CXT60 is a 150 watt loudspeaker that combines an 8" diameter, low frequency transducer and a 1" exit, true compression driver. The unit features a curvilinear, polypropylene cone for lower harmonic distortion, and a built-in crossover network for proper frequency transition between the two reproducers. Both the low frequency reproducer and the HF driver feature permanently aligned voice coils to assure distortion free performance. The copper voice coils have aluminum formers. Model 8CXT60 operates within a frequency response range of 48 Hz to 18 kHz (±10dB) with a sensitivity of 92dB and a dispersion angle of 90°. The loudspeaker meets functional and aesthetic application requirements by mounting a wide variety of round and square Atlas Sound baffles and enclosures. For applications requiring extended low-end performance, Atlas Sound offers a selection of 1 and 1.5 cu. ft. enclosures (Q408, QS408, Q418, Q428-SA), allowing for a complete high output solution. (see Q Series specification sheet #SL3-1091). In general, loudspeaker performance is significantly enhanced by larger back box size.

Model 8CXT60 includes a factory installed, high efficiency, 60W, 70.7/100V step down line transformer. Power taps are provided at 7.5, 15, 30 and 60 Watts (@70.7V).

ARCHITECT AND ENGINEER SPECIFICATIONS

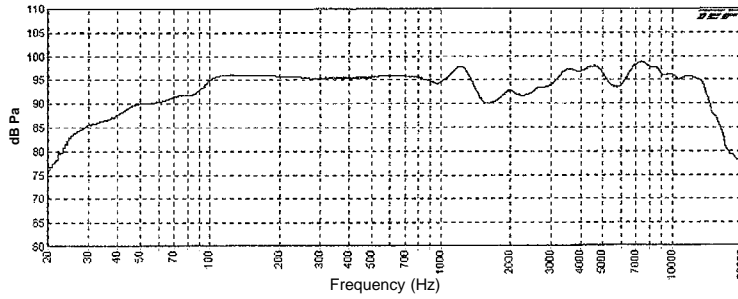
Frequency response range shall be 60 Hz to 15 kHz, ±3dB. Sensitivity shall be 92dB at 1 watt, 1 meter. Voice coil impedance shall be 8 ohms (nominal). Low frequency voice coil diameter shall be 2" (48mm). The maximum depth of the loudspeaker shall not exceed 8" (203mm). The low frequency reproducer cone shall be a full 8" (203mm) in diameter and the high frequency reproducer diaphragm shall be 2.5" (65mm) in diameter. The woofer shall have a 25 oz. (708.7g) ceramic magnet. The tweeter shall have a 20 oz. (567g) ceramic magnet. The two reproducer sections shall be coupled through a built-in crossover network. The crossover frequency shall be at 2000 Hz. Conical dispersion shall be 90 degrees at 2000 Hz. The unit shall include a factory - installed transformer. Transformer primary voltage shall be 70.7V or 100V with a frequency response range of 33Hz to 21kHz (±2dB) and power taps at 7.5, 15, 30 & 60 watts. Insertion loss shall not exceed 1dB. Unit shall be Atlas Sound 8" dia. loudspeaker Model 8CXT60.

Specifications subject to change without notice

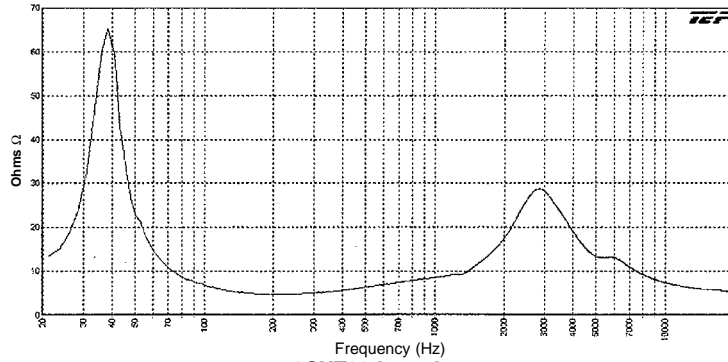


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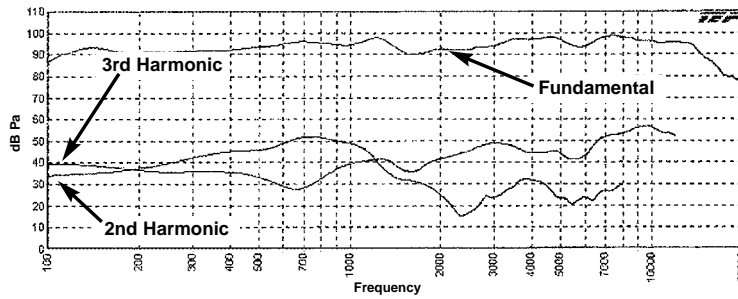
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8CXT60 Frequency Response
Measured in Q408 Enclosure
(Transformer Bypassed)

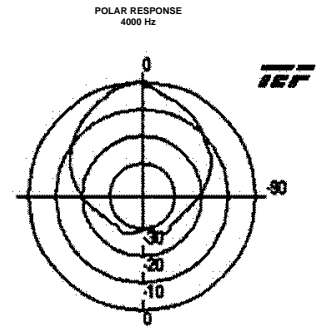
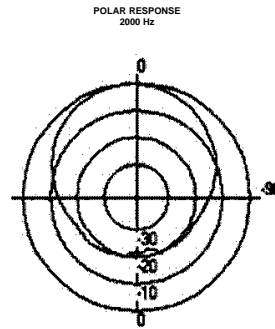
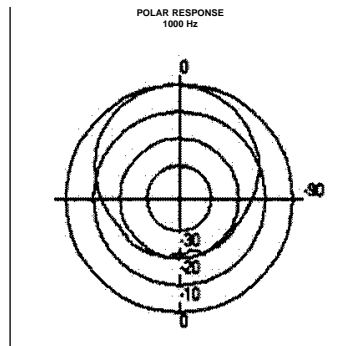
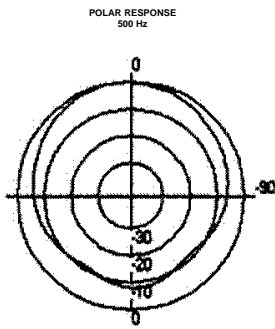


8CXT60 Impedance
Measured in Q408 Enclosure
(Transformer Bypassed)



Fundamental vs. 2nd & 3rd Harmonics
Measured in Q408 Enclosure
(Transformer Bypassed)

8CXT60 OCTAVE BAND POLARS



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